

### ABSTRACT

Environment measurement methods, systems, media, signals and data structures are disclosed. A first method involves receiving first signals produced in response to a laser beam scattered by the environment, receiving  
5 second signals produced in response to a radar beam scattered by the environment, and storing data representing the first and second signals, for use in producing a representation of the environment. A second method involves continuously producing data in response to scattered portions of a laser pulse scattered by respective portions of the environment, during a  
10 measurement interval of sufficient duration to receive all the scattered portions, and storing the data, for use in producing a representation of the environment.

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